

href-ul: L^AT_EX Package That Makes Underscored Links*

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1 Introduction

This package renders hyperlinks with an underscore through the `\href` command:

Go to <u>Google!</u>	<pre>1 \documentclass{article} 2 \pagestyle{empty} 3 \usepackage{href-ul} 4 \begin{document} 5 Go to 6 \href{https://google.com}{Google}! 7 \end{document}</pre>
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The package does not support line breaking within the title of the link.
Altering the colour of the text simultaneously alters the colour of the underline:

Go to <u>Google!</u>	<pre>1 \documentclass{article} 2 \pagestyle{empty} 3 \usepackage{href-ul} 4 \usepackage{xcolor} 5 \begin{document} 6 Go to {\color{red} 7 \href{https://google.com}{Google}}! 8 \end{document}</pre>
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Altering the size of the text leaves the height of the underline unaffected:

*The sources are in GitHub at [yegor256/href-ul](https://github.com/yegor256/href-ul)

You can always find anything in Google, but it's better to learn something from a school too!

```
1 \documentclass{article}
2 \pagestyle{empty}
3 \usepackage{href-ul}
4 \begin{document}
5 You can always find \\\ anything in
6 {\Large \href{https://google.com}{Google}},
7 but \\\ it's better to learn
8 something \\\ from a school too!
9 \end{document}
```

By means of the `plain` package option, the underscores may be suppressed:

This link has no underscore: Google.

```
3 \usepackage[plain]{href-ul}
4 \begin{document}
5 This link has no underscore: \\\
6 \href{https://google.com}{Google}.
7 \end{document}
```

2 Implementation

First, we process package options:

```
1 \RequirePackage{pgfopts}
2 \pgfkeys{
3   /href/.cd,
4   plain/.store in=\href@plain
5 }
6 \ProcessPgfPackageOptions{/href}
```

Then, we include the `ulem` package in order to enable underscores. We pass the `normalem` option so that `ulem` does not replace italics with underlining in text emphasized by `\emph`. The option is passed via `\PassOptionsToPackage` rather than `\RequirePackage[normalem]{ulem}`, so that no “option clash” occurs if the document already loads `ulem` itself:

```
7 \makeatletter
8 \ifdefined\href@plain\else
9 \PassOptionsToPackage{normalem}{ulem}
10 \RequirePackage{ulem}
11 \fi
12 \makeatother
```

Then, we include the `hyperref` package for PDF hyperlinks:

```
13 \PassOptionsToPackage{hidelinks}{hyperref}
14 \PassOptionsToPackage{hyphens}{url}
15 \RequirePackage{hyperref}
16 \RequirePackage{url}
```

Then, we re-define the default `\href` command:

```
17 \makeatletter
18 \begingroup
19 \catcode'\$=6
20 \catcode'\#=12
```

```
21 \gdef\href@split$1#$2#$3\\$4{%
22   \hyper@link{$1}{$2}{%
23     \ifdefined\href@plain$4\else\underline{$4}\fi%
24   }%
25   \endgroup%
26 }
27 \endgroup
28 \makeatother
```

Change History

0.4.0	General: Package options processing introduced with a single <code>plain</code> option.	2	package, because it's too fragile, and returned back to <code>ulem</code>	2	
0.5.0	General: Enhanced URL breaking functionality to improve handling of long URLs.	2	0.5.3	General: Passed the <code>normalem</code> option to <code>ulem</code> (via <code>\PassOptionsToPackage</code> , to avoid option clashes) so that <code>\emph</code> keeps italicizing instead of underlining.	2
0.5.1	General: Added text breaking capabilities to the second argument of <code>\href</code> and shifted from <code>ulem</code> to <code>soul</code> package.	2	v0.2.0	General: Initial version	2
0.5.2	General: Decided not to use <code>soul</code>		v0.3.0	General: We started using "docshots" package for better rendering of examples.	2

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	<code>\href@split</code> 21	<code>\pgfkeys</code> 2
<code>\#</code> 20	<code>\hyper@link</code> 22	<code>\ProcessPgfPackageOptions</code> 6
<code>\\$</code> 19	I	
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C	M	R
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